

In re: Nojima et al.
Serial No.: 10/705,365
Filed: November 10, 2003

In the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application.
Please amend the claims as follows:

1-7. (canceled)

8. (currently amended) A flue gas denitration catalyst comprising vanadium pentoxide supported on a carrier containing titanium dioxide and tungsten trioxide, which is obtained by preparing a mixture containing titanium dioxide and tungsten trioxide, and then supporting vanadium pentoxide on the surface of an extruded catalyst body or on a powder of the prepared mixture using a vapor phase method, wherein the vanadium pentoxide has a crystallite size of 8 nm or less as measured by X-ray diffraction.

9. (previously presented) The flue gas denitration catalyst of claim 8, which is obtained by supporting vanadium pentoxide on a powder of the prepared mixture using a vapor phase method, and by further supporting said powder on the surface of another formed product.

10. (previously presented) The flue gas denitration catalyst of claim 8, wherein titanium dioxide and tungsten trioxide in the mixture exists in the form of a complex oxide thereof.

11. (previously presented) The flue gas denitration catalyst of claim 8, wherein the supported amounts of vanadium pentoxide range from 0.4 to 5 wt.% based on the weight of a surface layer of the catalyst, which has a thickness of 200 μm from its surface, and range from 0.1 to 0.9 wt.% based on the total weight of the catalyst.

12. (canceled)

In re: Nojima et al.
Serial No.: 10/705,365
Filed: November 10, 2003

13. (currently amended) The flue gas denitration catalyst of claim 8, wherein the extruded catalyst body has a honeycomb shape.

14. (previously presented) The flue gas denitration catalyst of claim 9, wherein the formed product has a honeycomb shape.

15. (previously presented) The flue gas denitration catalyst of claim 8, wherein the mixture further contains silicon dioxide.

16. (previously presented) The flue gas denitration catalyst of claim 15, wherein titanium dioxide, tungsten trioxide and silicon dioxide in the mixture exists in the form of a complex oxide thereof.

17. (previously presented) The flue gas denitration catalyst of claim 9, wherein the formed product contains titanium dioxide, tungsten trioxide and vanadium pentoxide.

18. (previously presented) A flue gas denitration catalyst comprising titanium dioxide, tungsten trioxide and vanadium pentoxide, wherein vanadium pentoxide is supported on a carrier containing titanium dioxide and tungsten trioxide in a surface layer of the catalyst, which has a thickness of 200 μm from its surface, wherein the supported amounts of vanadium pentoxide range from 0.4 to 5 wt.% based on the weight of the surface layer and range from 0.1 to 0.9 wt.% based on the total weight of the catalyst, and wherein vanadium pentoxide thus supported has a crystallite size of less than 8 nm as measured by X-ray diffraction.